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SECURITY INFORMATION

8 July 1953

## MEMORANDUM FOR THE RECORD

SUBJECT: Meeting at [redacted]  
18 June 1953.

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1. A meeting was held at [redacted]  
[redacted] on 18 June 1953, with [redacted]  
[redacted] of [redacted] and [redacted]  
[redacted] of APD.

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2. [redacted] presented for inspection two models of the  
time signal radio in fulfillment of the research phase of [redacted]  
One model is a crystal controlled superheterodyne; the other employs  
tuned R.F. With short antennas both models brought in the 5 Mc.  
broadcast of WWV. Their sensitivity is better than one microvolt.

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3. These two models were accepted and eight more of the super-  
heterodyne type were ordered to complete the production phase of  
[redacted]

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4. The possibility of another task calling for the production  
of five or more of the T.R.F. type was discussed.

5. A model of the passive element on contract [redacted] was  
presented for inspection. The element was complete except for a  
diaphragm. Efforts are being made to obtain thin nickel foil  
(2/10 mil) for this purpose.

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6. [redacted] submitted a detailed proposal for research  
on the application of pulse code methods of modulation to be used  
as a means of maintaining secrecy in electrical and electro-  
magnetic communications systems.

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7. [redacted] mentioned other projects that are being con-  
sidered:

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- a. A device for [redacted] by sampling;
- b. High speed recording to shorten radio transmissions;
- c. Communication by ultrasonic waves [redacted]

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DOCUMENT NO. \_\_\_\_\_  
NO CHANGE IN CLASS. ☐  
☐ DECLASSIFIED  
CLASS. CHANGED TO: TS s 62011  
NEXT REVIEW DATE: \_\_\_\_\_  
AUTH: HR 70-2  
DATE: 7/10/94 REVIEWER: 037169

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8.  gives the impression of being well equipped and well staffed. 50X1

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